

Date Mailed DECEMBER 15 1999

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FORM 1449\*

## INFORMATION DISCLOSURE STATEMENT

IN AN APPLICATION

(Use several sheets if necessary)

U.S. Patent Application No. 10/613,117  
 Filing Date: July 3, 2003  
 Attorney Docket No. LIFE-090CON4

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MS	5,115,133	05/19/1992	Knudson				
	5,146,091	09/08/1992	Knudson				
	5,179,951	01/19/1993	Knudson				
	5,201,324	04/13/1993	Swierczek				
	5,231,993	08/03/1993	Haber et al.				
	5,320,607	06/14/1994	Ishibashi				
	5,368,047	11/29/1994	Suzuki et al.				
	5,437,841	08/01/1995	Balmer				
	5,458,140	10/17/1995	Eppstein et al.				
	5,470,757	11/28/1995	Gagnon et al.				
	5,582,184	12/10/1996	Erickson et al.				
	5,682,233	10/28/1997	Brinda				
	5,746,217	05/05/1998	Erickson et al.				
	5,820,570	10/13/1998	Erickson et al.				
	5,879,310	03/09/1999	Sopp et al.				
MS	5,879,367	03/09/1999	Latterell et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
MS		Moatti-Sirat, D. et al., "Towards Continuous Glucose Monitoring: In Vivo Evaluation of Miniaturized Glucose Sensor Implanted for Several Days in Rat Subcutaneous Tissue", <i>Diabetologia</i> , Vol. 35, pp. 224-230 (1992)					
MS		Petersen, L. et al., "Microdialysis of the Interstitial Water Space in Human Skin In Vivo: Quantitative Measurement of Cutaneous Glucose Concentrations," <i>J Invest Dermatol</i> , Vol. 99, No. 3, pp. 357-360 (September 1992)					
MS		Turner, A. et al., "Diabetes Mellitus: Biosensors for Research and Management," <i>Biosensors</i> , Vol. 1, pp. 85-115 (1985)					
MS		Wiig, H., "Evaluation of Methodologies for Measurement of Interstitial Fluid Pressure (Pi): Physiological Implications of Recent Pi Data," <i>Crit Rev Biomed Eng</i> , Vol. 18, No. 1, pp. 27-54 (1990)					
MS		Wolfson, Jr., S. et al., "Glucose Concentration at Possible Sensor Tissue Implant Sites," <i>Diabetes</i> , Vol. 5, No. 3, pp. 162-165 (May-June 1982)					

EXAMINER

DATE CONSIDERED

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MD	4,901,728	02/20/1990	Hutchinson				
	4,953,552	09/04/1990	DeMarzo				
	4,954,318	09/04/1990	Yafuso et al.				
	4,960,467	10/02/1990	Peck				
	4,981,779	01/01/1991	Wagner				
	5,002,054	03/26/1991	Ash et al.				
	5,014,718	05/14/1991	Mitchen				
	5,026,388	06/25/1991	Ingatz				
	5,029,583	07/09/1991	Meserol et al.				
	5,035,704	07/30/1991	Lambert et al.				
	5,054,499	10/08/1991	Swierczek				
	5,066,859	11/19/1991	Karkar et al.				
	5,070,886	12/10/1991	Mitchen et al.				
NRB	5,079,421	01/07/1992	Knudson et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
NS		Kayashima, S. et al., "New Noninvasive Transcutaneous Approach to Blood Glucose Monitoring: Successful Glucose Monitoring on Human 75 g OGTT with Novel Sampling Chamber," <i>IEEE Transactions on Biomedical Engineering</i> , Vol. 38, No. 8, pp. 752-757 (August 1991)					
dy		Kayashima S. et al., "Suction Effusion Fluid From Skin and Constituent Analysis: New Candidate for Interstitial Fluid," <i>Am J. Physiol</i> (United States) Nov. 1992, 263 (5 Pt 2), pp. H1623-H1627					
ls		Khtala, U., "Suction Blister Device for Separation of Viable Epidermis from Dermis," <i>Journal of Investigative Dermatology</i> , Vol. 50, No. 2, pp. 120-137 (1968)					
ls		Korthius, R. et al., "Method for Sampling Interstitial Fluid" from book entitled <i>Microcirculatory Technology</i> , edited by D. H. Baker et al., Academic Press, Chapter 21, pp. 326-327 (1986)					
sd		Mendelson, Y. et al., "Blood Glucose Measurement by Multiple Attenuated Total Reflection and Infrared Absorption Spectroscopy," <i>IEEE Transactions on Biomedical Engineering</i> , Vol. 37, No. 5, pp. 458-465 (May 1990)					

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EXAMINER	<i>Michael Stern</i>	DATE CONSIDERED	12-13-01
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MS	4,637,403	01/20/1987	Garcia et al.			
	4,648,408	03/10/1987	Hutcheson et al.			
	4,655,225	04/07/1987	Dahne et al.			
	4,660,971	04/28/1987	Sage et al.			
	4,685,463	08/11/1987	Williams			
	4,703,756	11/03/1987	Gough et al.			
	4,704,029	11/03/1987	Van Heuvelen			
	4,730,622	03/15/1988	Cohen			
	4,750,830	06/14/1988	Lee			
	4,805,623	02/21/1989	Jobsis			
	4,873,993	10/17/1989	Meserol et al.			
	4,882,492	11/21/1989	Schlager			
MS	4,883,068	11/28/1989	Dechow			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MS	0 582 226 A1	02/09/1994	EP			Abstract	
MS	2 033 575 A	05/21/1980	GB				
MS	WO 85/04089	09/26/1985	PCT				
MS	WO 88/00812	02/11/1988	PCT				
MS	WO 91/18548	12/12/1991	PCT				
MS	WO 95/10223	04/20/1995	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
MS		Gelman-Science brochure, pg. 60 (1993) showing Nylaflo, Catalog P/N 32378.
MS		Gilanyi, M. et al., "Ion Concentrations in Subcutaneous Interstitial Fluid: Measured Versus Expected Values," <i>Am. J. Physiol.</i> (United States) Sept. 1988, 255 (3 Pt 2) pp. F513-F519
MS		Ginsberg, B. "An Overview of Minimally Invasive Technologies", <i>Clinical Chemistry</i> , Vol. 38, No. 9, pp. 1596-1600 (1992)
MS		"Glucose Sensors" and "Like An Injection" sections on page 26 of Diabetes Forecast, May, 1993
MS		Janle-Swain, E. et al., "Use of Capillary Filtrate Collector for Monitoring Glucose in Diabetics," <i>Trans. Am. Artif. Intern. Organs</i> , Vol. XXXIII, pp. 336-340 (1987)

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EXAMINER	Michael J. Stahl	DATE CONSIDERED	12-13-93
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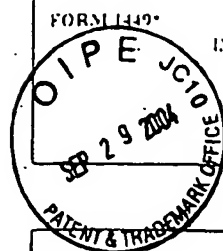
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MP	3,123,066	03/03/1964	Brumley			
	3,136,310	06/09/1964	Meltzer			
	3,208,452	09/28/1965	Stern			
	3,338,239	08/29/1967	Mausteller			
	3,958,560	05/25/1976	March			
	4,014,321	03/29/1977	March			
	4,195,641	04/01/1980	Johnes et al.			
	4,200,110	04/29/1980	Peterson et al.			
	4,407,290	10/04/1983	Wilber			
	BI 4,407,290	10/14/1986	Wilber			
MPS	4,489,974	12/25/1984	Warhol			
	4,517,978	05/21/1985	Levin et al.			
	4,622,974	11/18/1986	Coleman et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MS	37 08 031 A1	11/12/1987	DE			X	
MS	0 160 768 A1	11/13/1985	EP				
MS	0 199 484 A2	10/29/1986	EP				
MS	0 212 906 A2	03/04/1987	EP				
MS	0 250 257 A1	12/23/1987	EP				
MS	0 453 283 A1	10/23/1991	EP				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MS		Arnold, M. et al., "Determination of Physiological Levels of Glucose in an Aqueous Matrix with Digitally Filtered Fourier Transform Near-Infrared Spectra," <i>Anal. Chem.</i> , Vol. 62, pp. 1457-1464 (1990)
MS		Ash, S. et al., "Subcutaneous Capillary Filtrate Collector for Measurement of Blood Glucose," <i>ASAIO Journal</i> , Vol. 38, pp. M416-M420 (1992)
MS		Ash, S. et al., "A Subcutaneous Capillary Filtrate Collector for Measurement of Blood Chemistries," <i>ASAIO Journal</i> , Vol. 39, pp. M699-M705 (1993)
MS		Brace, R. et al., "Reevaluation of the Needle Method for Measuring Interstitial Fluid Pressure," <i>Am J. Physiol.</i> , Vol. 229, No. 3, pp. 603-607 (September 1975)
MS		DuPuy, N. et al., "Quantitative Analysis of Aqueous Solutions by FTIR Spectroscopy of Dry Extract", SPIE, Vol. 1575, 8th. International Conference on Fourier Transform Spectroscopy, pp. 501-502 (1991)

EXAMINER	Michael Stark	DATE CONSIDERED	12-13-04
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